

### Amendments to the Claims

Claim 1 (**Currently Amended**) A chip antenna comprising:

a substrate having a pair of end portions;

a plurality of helical conductors provided on said substrate; and

a pair of terminals respectively provided on said pair of end portions of said substrate,

wherein one of said plurality of helical conductors is electrically connected to one of said pair of terminals, and another-one of said plurality of helical conductors is electrically connected to another of said pair of terminals,

wherein said plurality of helical conductors are not electrically conductive with respect to each other,

wherein said plurality of helical conductors are capacitively coupled, and

wherein said one of said pair of terminals is connected to a power feeding section for feeding a signal current to said one of said pair of terminals and said another of said pair of terminals is open ended.

Claims 2-5 (**Canceled**)

Claim 6 (**Original**) The chip antenna according to claim 1, wherein said plurality of helical conductors and said pair of terminals are formed by a same conductive film.

Claim 7 (**Canceled**)

Claim 8 (**Currently Amended**) The chip antenna according to claim 1-7, wherein said one of said plurality of helical conductors corresponds to a highest frequency of a plurality of transmitting and receiving frequencies and is connected to said one of said pair of terminals connected to the power feeding section.

Claim 9 (**Original**) The chip antenna according to claim 1, wherein a portion of said substrate has a smaller cross sectional area than portions of said substrate on which said pair of terminals are provided.

Claim 10 **(Original)** The chip antenna according to claim 1, wherein said substrate comprises one of a quadrangular prism, a circular cylinder, a triangular prism, and an elliptic cylinder.

Claim 11 **(Original)** The chip antenna according to claim 1, wherein said substrate comprises one of a circular cylinder and an elliptic cylinder, and portions of said substrate on which said pair of terminals are located are cubical in shape.

Claim 12 **(Original)** The chip antenna according to claim 10, wherein said substrate is rectangular in cross section and has a longer dimension in a lateral direction than a dimension in a vertical direction.

Claim 13 **(Original)** The chip antenna according to claim 1, wherein a portion of said substrate has a larger cross sectional area than another portion of said substrate.

Claim 14 **(Original)** The chip antenna according to claim 13, wherein said portion having the larger cross sectional area is not provided with any of said plurality of helical conductors.

Claim 15 **(Original)** The chip antenna according to claim 1, further comprising a protective film covering at least said plurality of helical conductors on said substrate.

Claim 16 **(Original)** The chip antenna according to claim 15, wherein said protective film comprises one of a tube-like protective film, a coated protective film, and an electro-deposited film.

Claim 17 **(Original)** The chip antenna according to claim 1, wherein said plurality of helical conductors are formed by one of trimming said substrate which is covered with a conductive film and winding a wire around said substrate.

Claim 18 **(Original)** The chip antenna according to claim 1, wherein said chip antenna is operable to transmit and receive frequencies of at least a GSM band and a DCS-1800 telecommunication band.

Claim 19 **(Original)** The chip antenna according to claim 1, wherein said chip antenna has a length  $L$ , a height  $H$  and a width  $W$  of:

$$4.0mm \leq L \leq 40.0mm;$$

$$0.5mm \leq H \leq 10.0mm; \text{ and}$$

$$0.5mm \leq W \leq 10.0mm.$$

Claim 20 **(Currently Amended)** The chip antenna according to claim 1-7, further comprising a crown conductor electrically connected to said another of said pair of terminals that is open ended.

Claim 21 **(Currently Amended)** The chip antenna according to claim 20, wherein

\_\_\_\_\_ a portion of said substrate has a larger cross sectional area than another portion of said substrate.

\_\_\_\_\_ said crown conductor is also connected to said ~~a portion of said substrate having the a larger cross sectional area than another portion of said substrate, in addition to said terminal in connection to the open end, and~~

\_\_\_\_\_ wherein said portion having the larger cross sectional area does not include a portion provided with said plurality of helical conductors.

Claim 22 **(Currently Amended)** The chip antenna according to claim 20, wherein said crown conductor has one of ~~generally~~ a generally triangular shape, a generally square shape, a generally polygonal shape, a generally circular shape and ~~an a~~ a generally oval shape.

Claim 23 **(Currently Amended)** ~~A An antenna device having a chip antenna, said chip antenna comprising:~~

a substrate having a pair of end portions;

a plurality of helical conductors provided on said substrate; and

a pair of terminals respectively provided on said pair of end portions of said substrate,  
wherein one of said plurality of helical conductors is electrically connected to one of said pair of terminals, and another ~~one~~ of said plurality of helical conductors is electrically connected to another of said pair of terminals, ~~and~~  
wherein said plurality of helical conductors are electrically connected with each other~~said chip antenna is mounted to a portable terminal in a location which is a lower side of the portable terminal when the portable terminal is held in a normal use orientation,~~  
wherein said one of said pair of terminals is connected to a power feeding section for feeding a signal current to said one of said pair of terminals and said another of said pair of terminals is open ended, and  
wherein said one of said plurality of helical conductors corresponds to a highest frequency of a plurality of transmitting and receiving frequencies and is connected to said one of said pair of terminals connected to the power feeding section.

**Claims 24-32 (Canceled)**

**Claim 33 (New)** The chip antenna according to claim 23, wherein said plurality of helical conductors is at least three of said helical conductors.

**Claim 34 (New)** An antenna device comprising the chip antenna according to claim 1, wherein the chip antenna is mounted to a location in a portable terminal, the location being at a lower portion of the portable terminal when the portable terminal is normal use orientation.

**Claim 35 (New)** An antenna device comprising the chip antenna according to claim 23, wherein the chip antenna is mounted to a location in a portable terminal, the location being at a lower portion of the portable terminal when the portable terminal is normal use orientation.